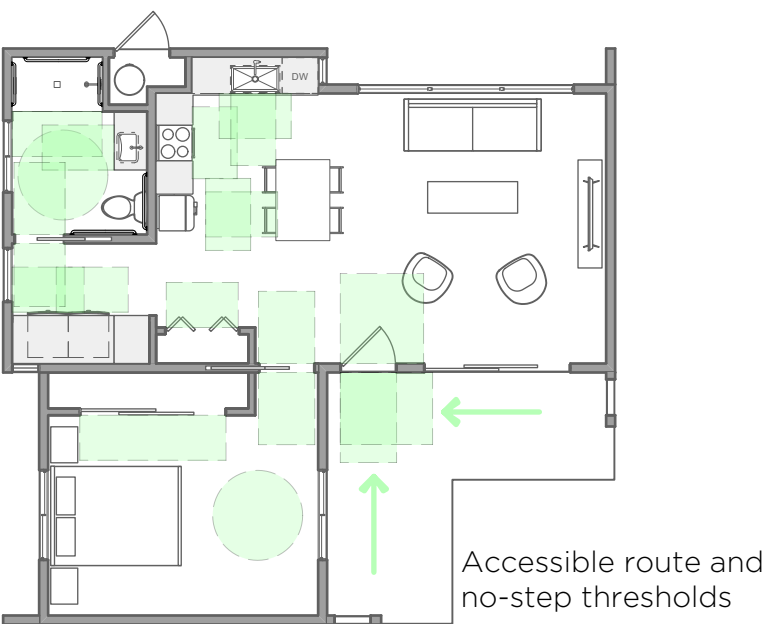


FAMILY FRIENDLY

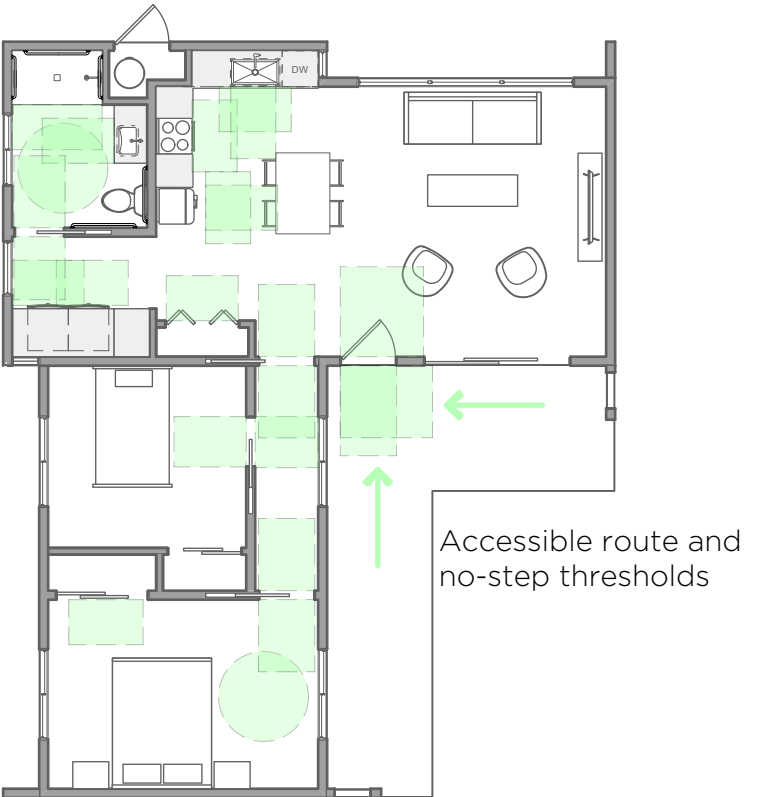
- 2-bedroom option for family, or separate office
- laundry area
- storage included via closets and reasonable kitchen cabinetry
- space accommodates full sized appliances, and includes dishwasher
- ability to have observable shared outdoor space for any age occupant by creating a courtyard with main house, or by creating a private fenced yard with windows for view only from ADU

UNIVERSAL DESIGN/ACCESSIBILITY

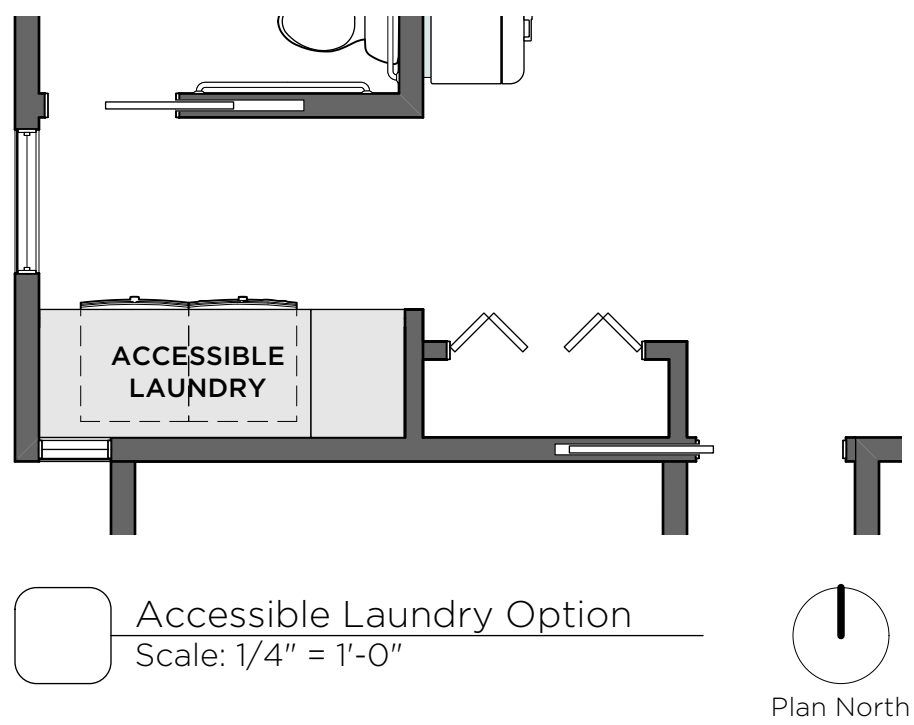
- designed for complete wheelchair accessibility with side by side laundry option
- ability to install wheelchair accessible appliances, cabinetry, and fixtures in-place
- living/kitchen area with dining table rather than fixed island allows for circulation flexibility
- designed for aging in place with accommodation for future mobility aids, such as grab bars
- no-step entrance and exterior porch slab allow for an area of accessible approach for small grade changes
- accessible operable window control



FULLY ACCESSIBLE ONE BEDROOM



FULLY ACCESSIBLE TWO BEDROOM



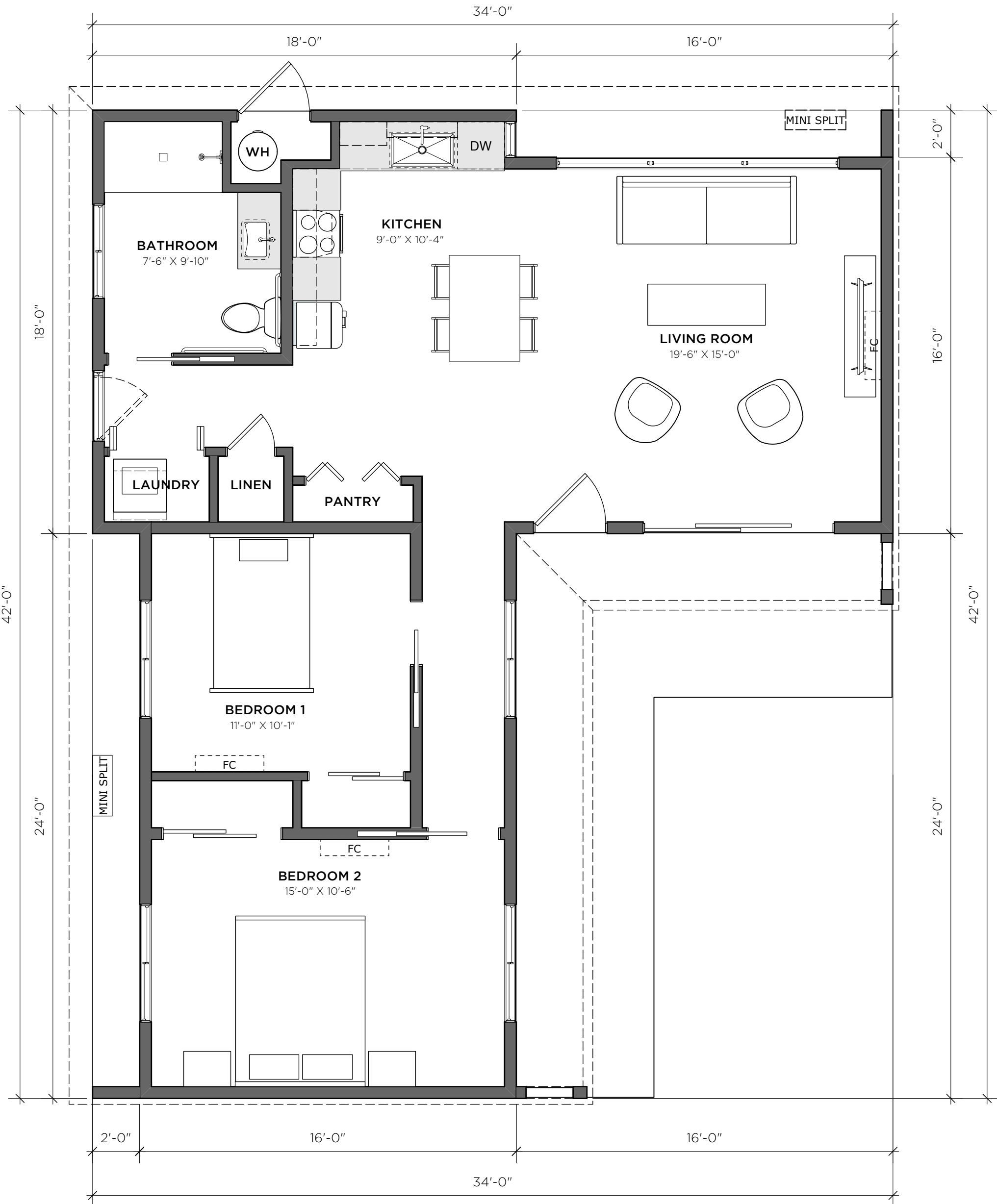
DESERT CASITA

PROJECT DESCRIPTION

The Desert Casita is 804 sq ft with 964 sq ft 2 bedroom option. The design aims to serve individuals, families, aging in place, and those who need a fully accessible home. It's designed for people to bring the things of their lives and stay a while.

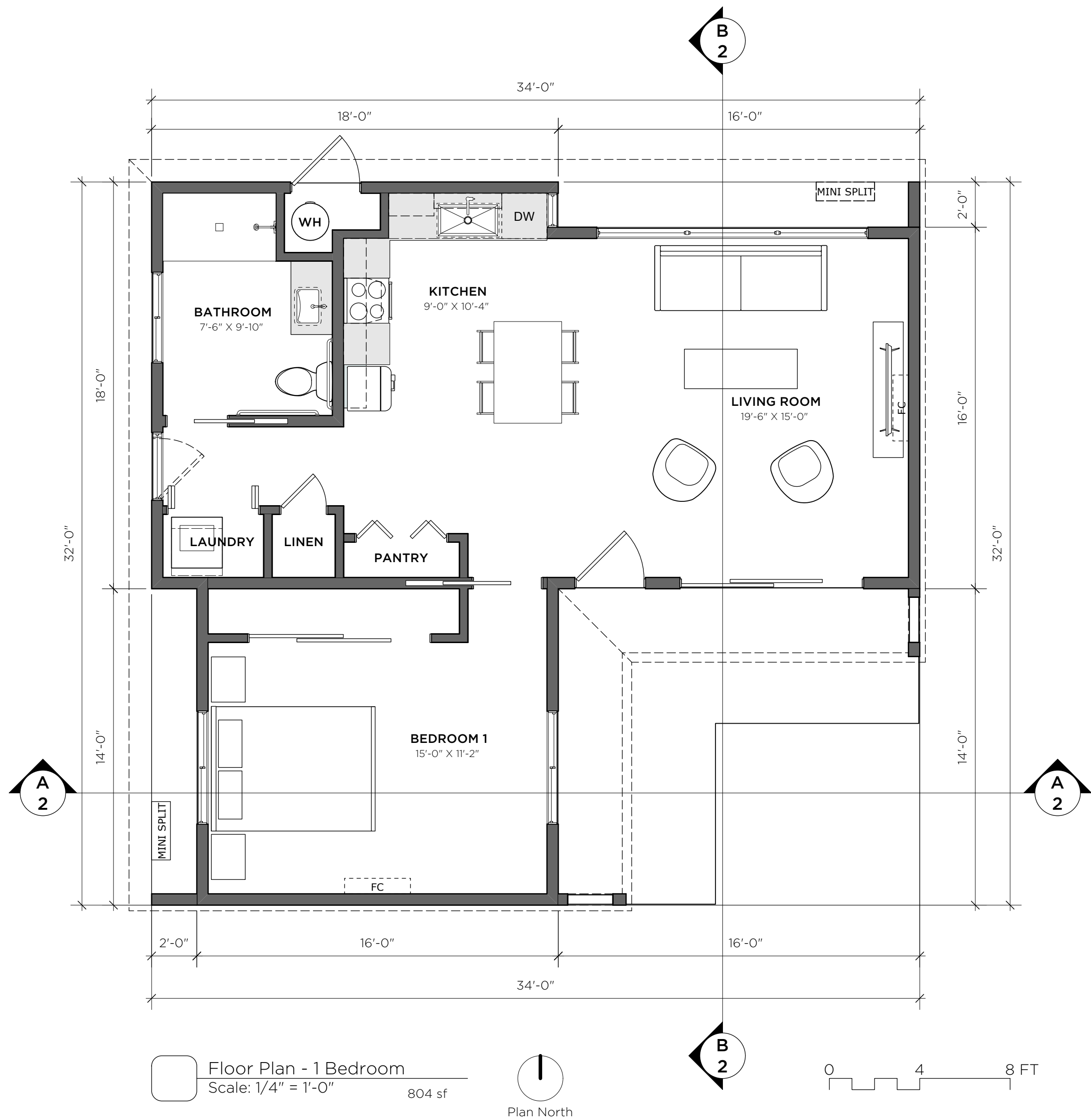
Using commonly available materials and methods, the compact systems work together to provide resource savings that benefit cost. Additionally, design for sustainability fills the spaces with daylight while providing shade from the harshest sun and circulating air through operable windows. The casita roof was also designed to provide solar PV potential from any angle and allow water harvesting to fit within the footprint of the casita.

It can fit in a corner against minimum setbacks and has an optional additional entrance. This casita offers the versatility to integrate with the main dwelling or provide privacy, all while balancing the needs of both households.



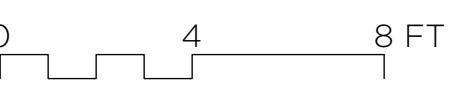
Floor Plan - 2 Bedroom Option  
Scale: 1/4" = 1'-0"

964 sf



Floor Plan - 1 Bedroom  
Scale: 1/4" = 1'-0"

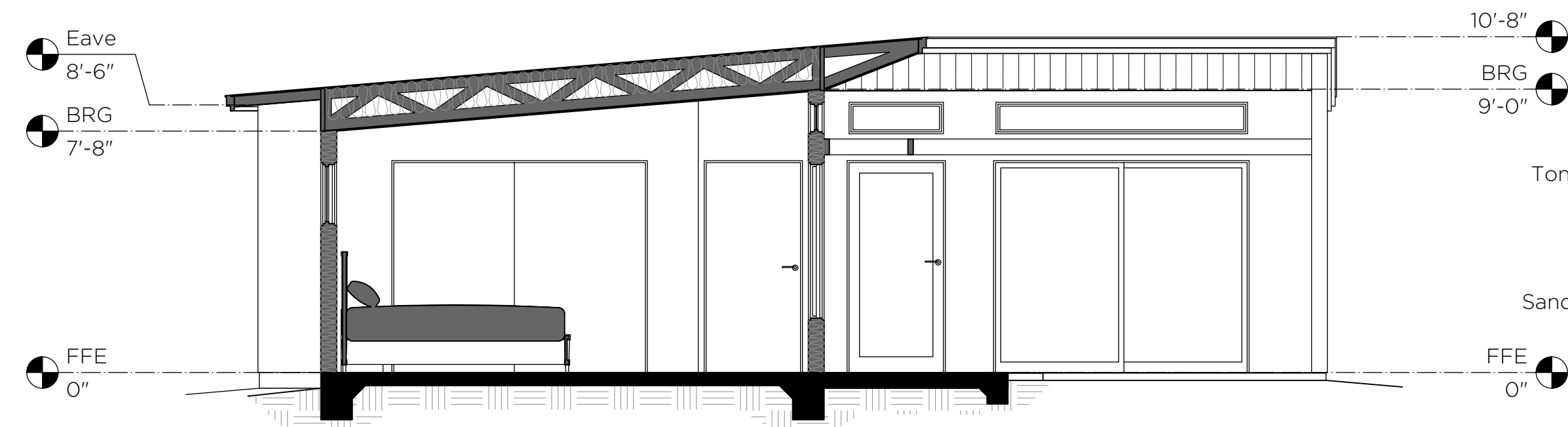
804 sf



DESERT CASITA

AN ADU DESIGN  
FOR LIFE IN TUCSON

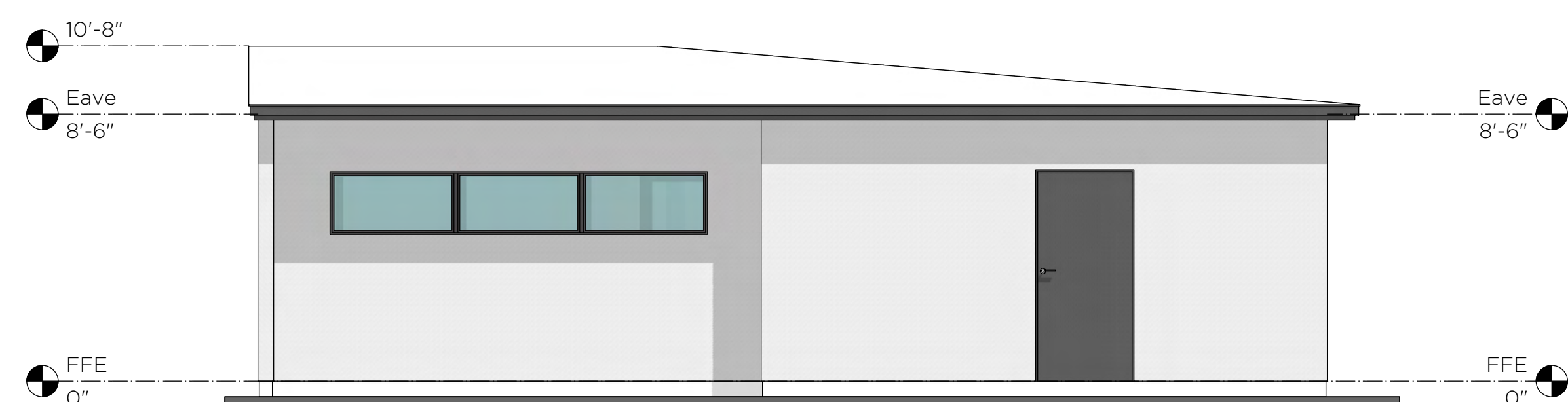




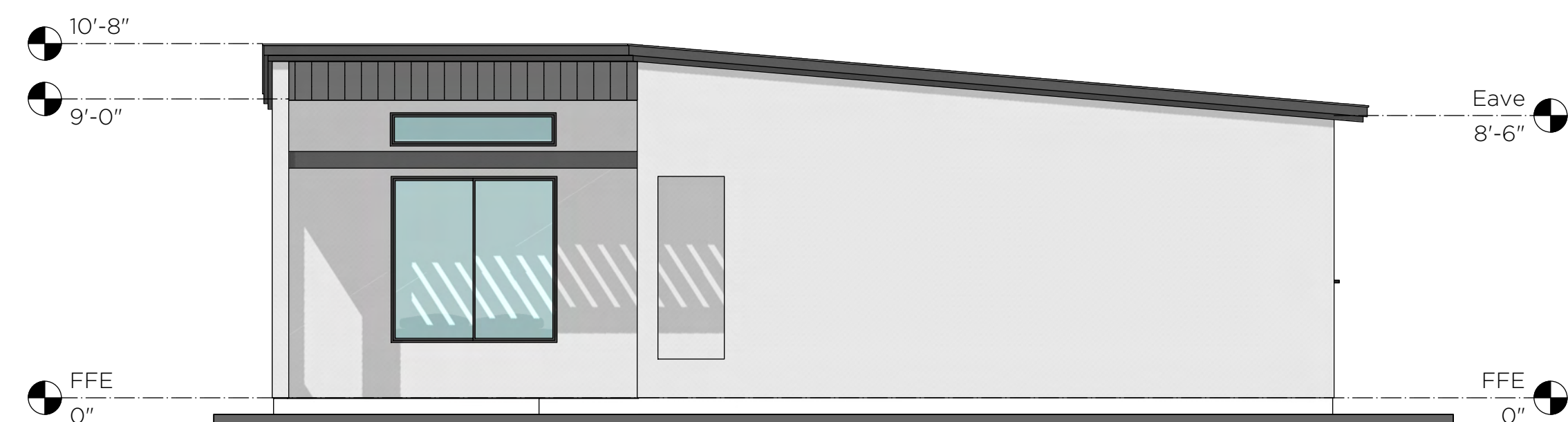
A Building Section  
Scale: 1/4" = 1'-0"



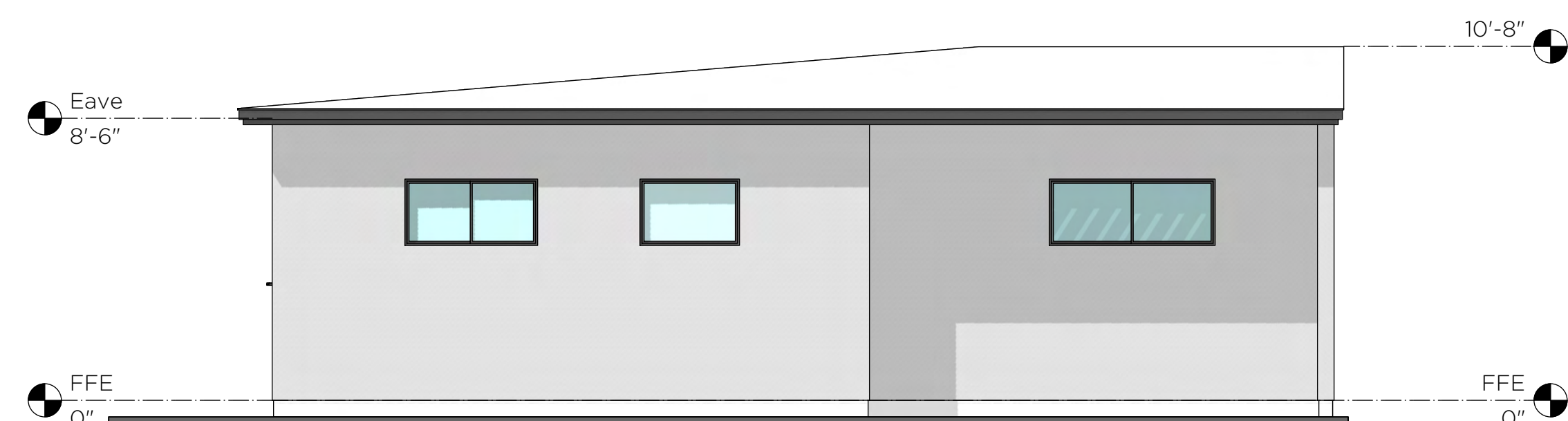
S South Elevation  
Scale: 1/4" = 1'-0"



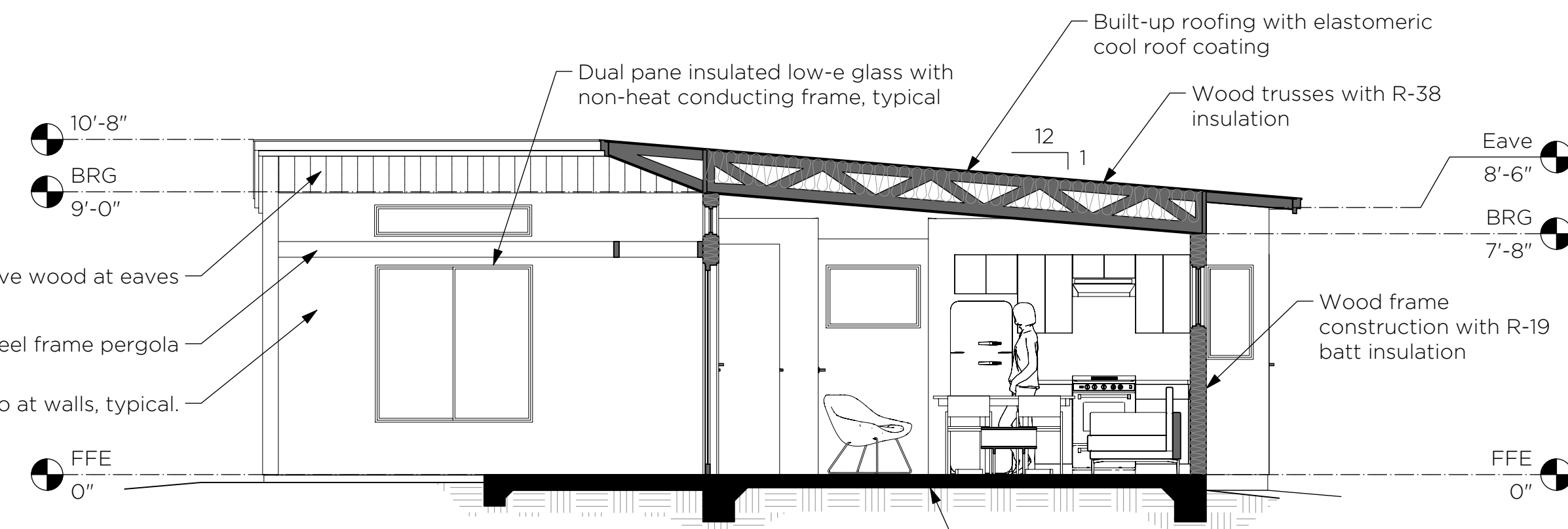
N North Elevation  
Scale: 1/4" = 1'-0"



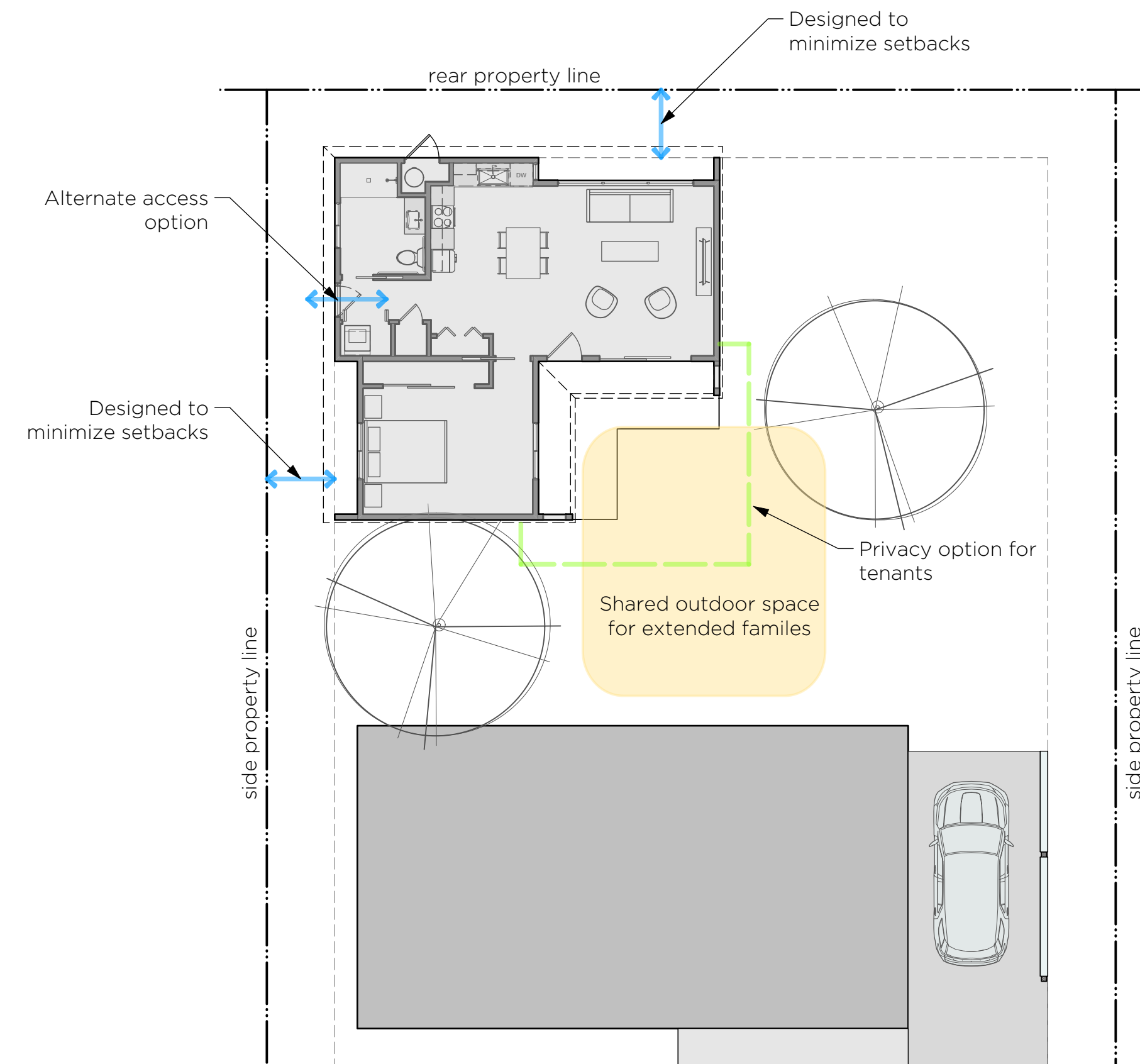
E East Elevation  
Scale: 1/4" = 1'-0"



W West Elevation  
Scale: 1/4" = 1'-0"



B Building Section  
Scale: 1/4" = 1'-0"



Example Site Plan  
Scale: 3/32" = 1'-0"



3D Section

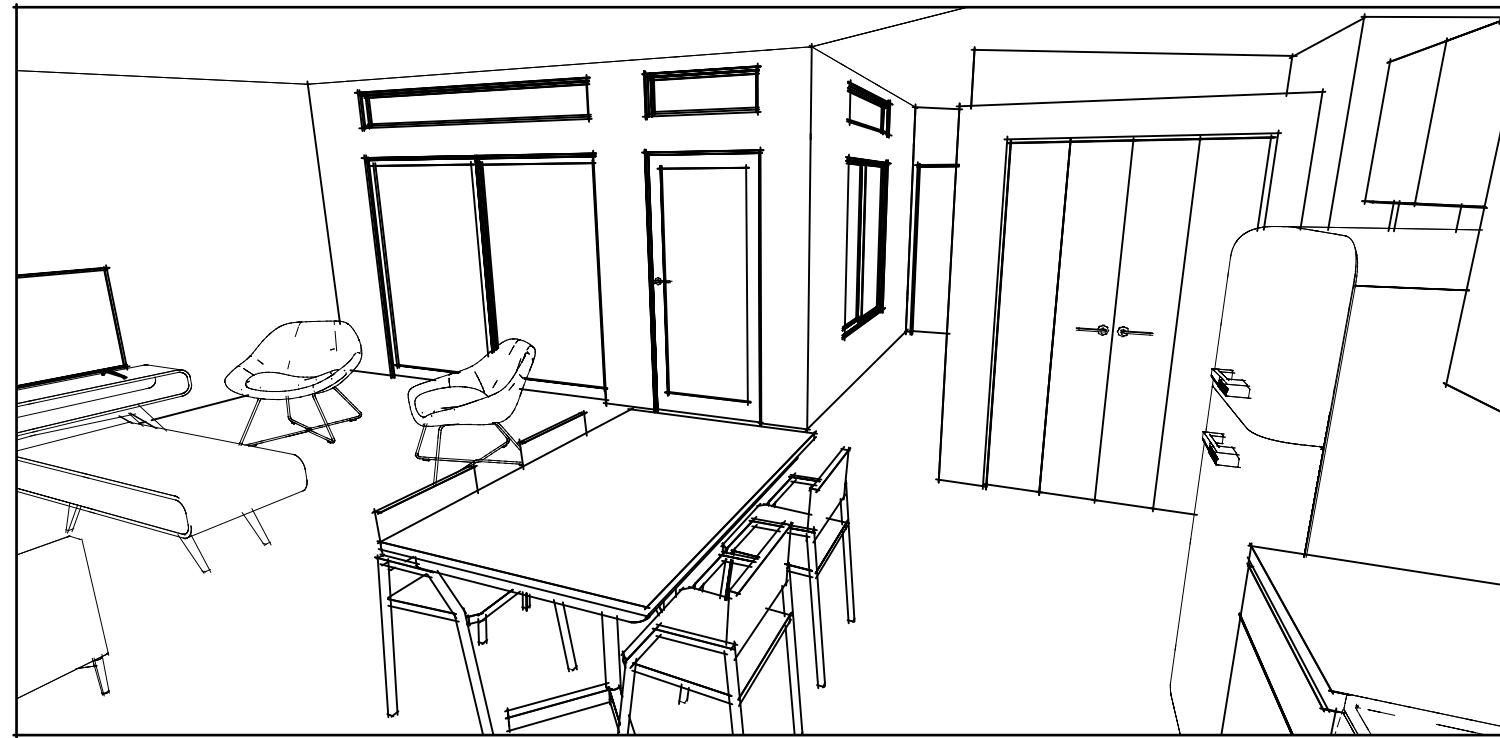
#### DESIGNED FOR CONSTRUCTABILITY

- efficient use of materials
- common construction methods and commonly available materials/systems
- partially prefab elements in the form of roof trusses that provide built in space for insulation and system components
- compact plumbing design
- ductless mini-split heat pump (VRF) HVAC system

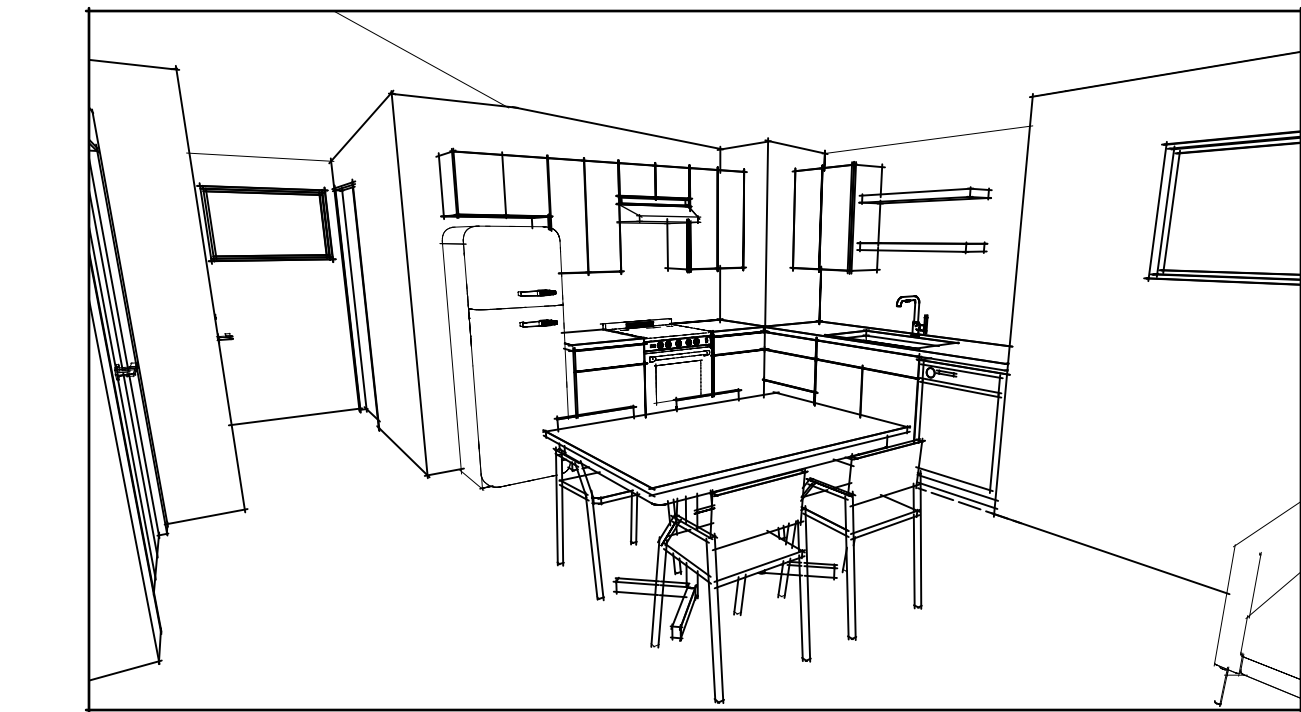
#### CONTEXTUAL FLEXIBILITY

- low roof height at two elevations to meet minimum setbacks at rear and side yard
- flexibility to achieve privacy, shading, daylight and access on multiple sites
- one and two bedroom options to fit most lot sizes
- ability to form an outdoor space in conjunction with the main house or complete the rectangle of the ADU with fencing or vegetation for a private yard
- optional door for alternate access for privacy or varying site circulation
- the footprint may help to preserve existing mature vegetation depending on site space and conditions
- planting of small trees and native shrubs can bolster shading for exterior yard spaces and windows

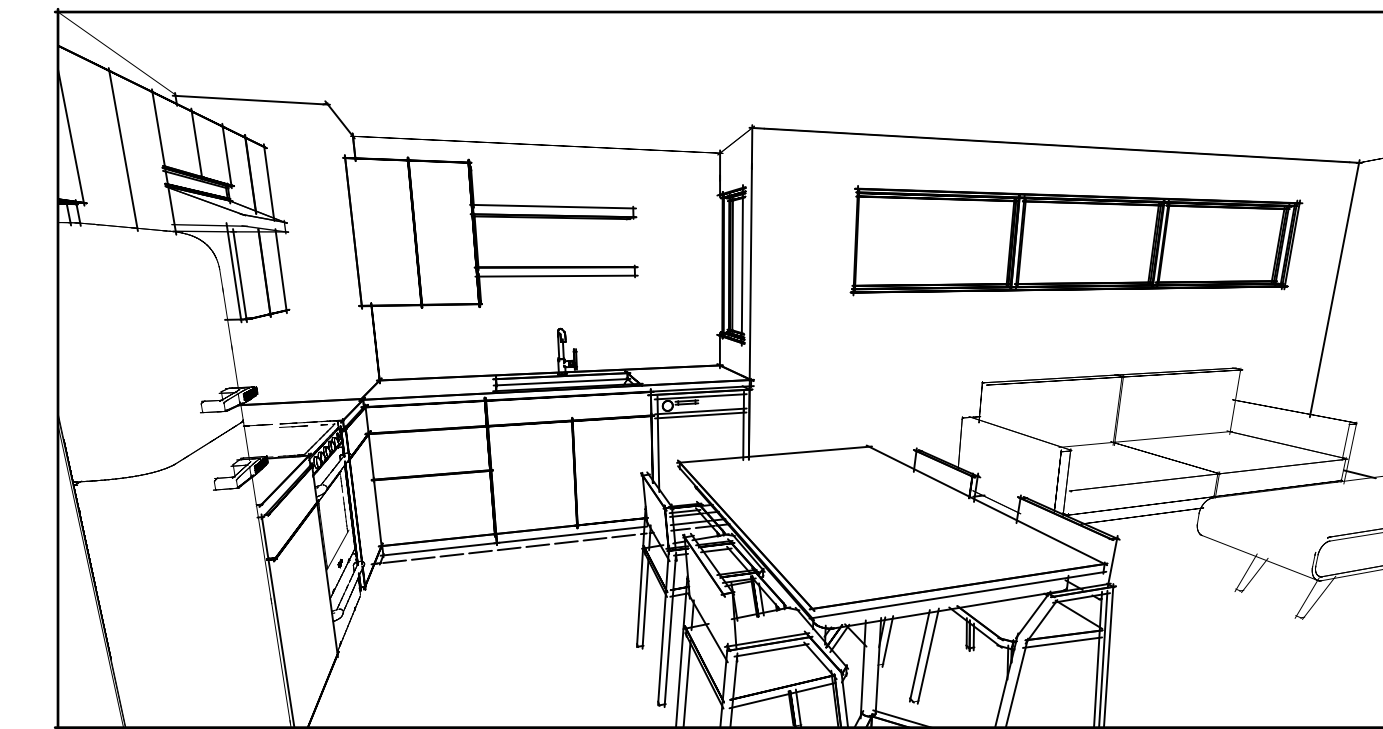




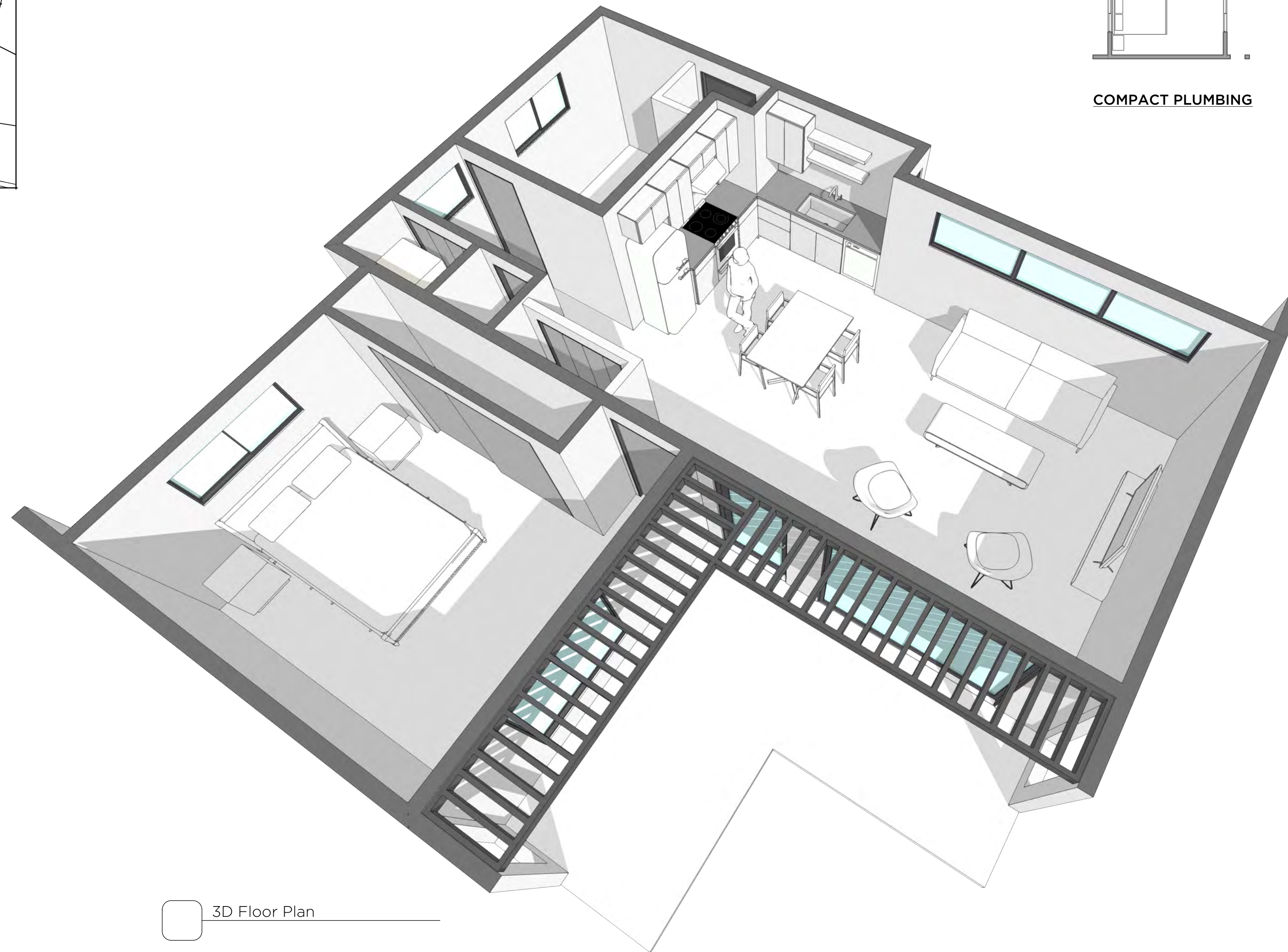
TWO BEDROOM OPTION INTERIOR VIEW



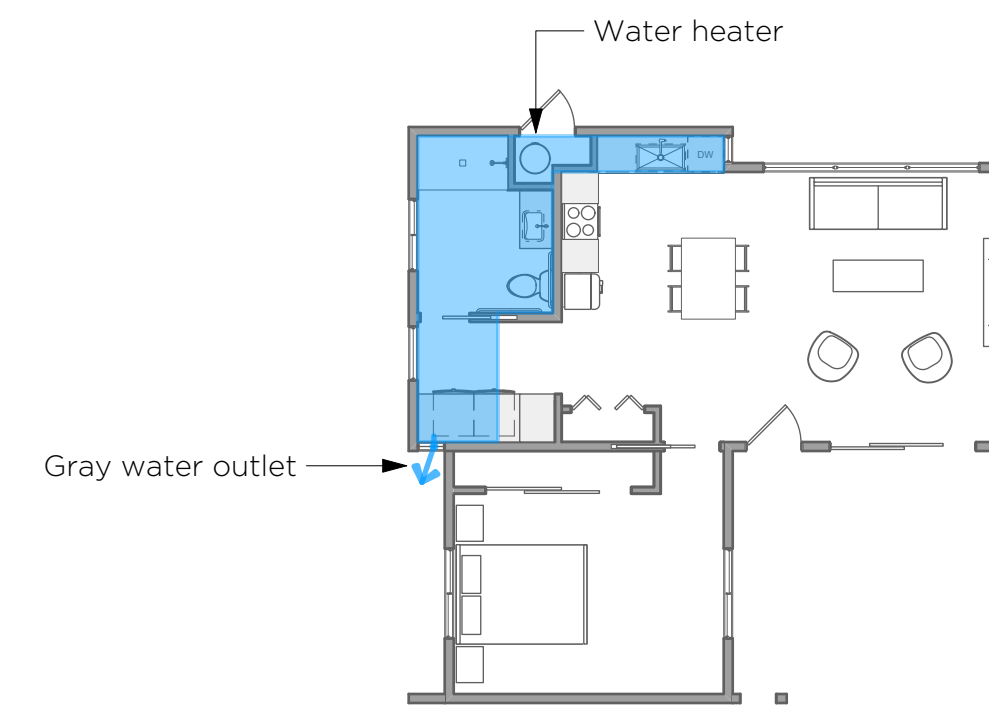
KITCHEN INTERIOR VIEW 1



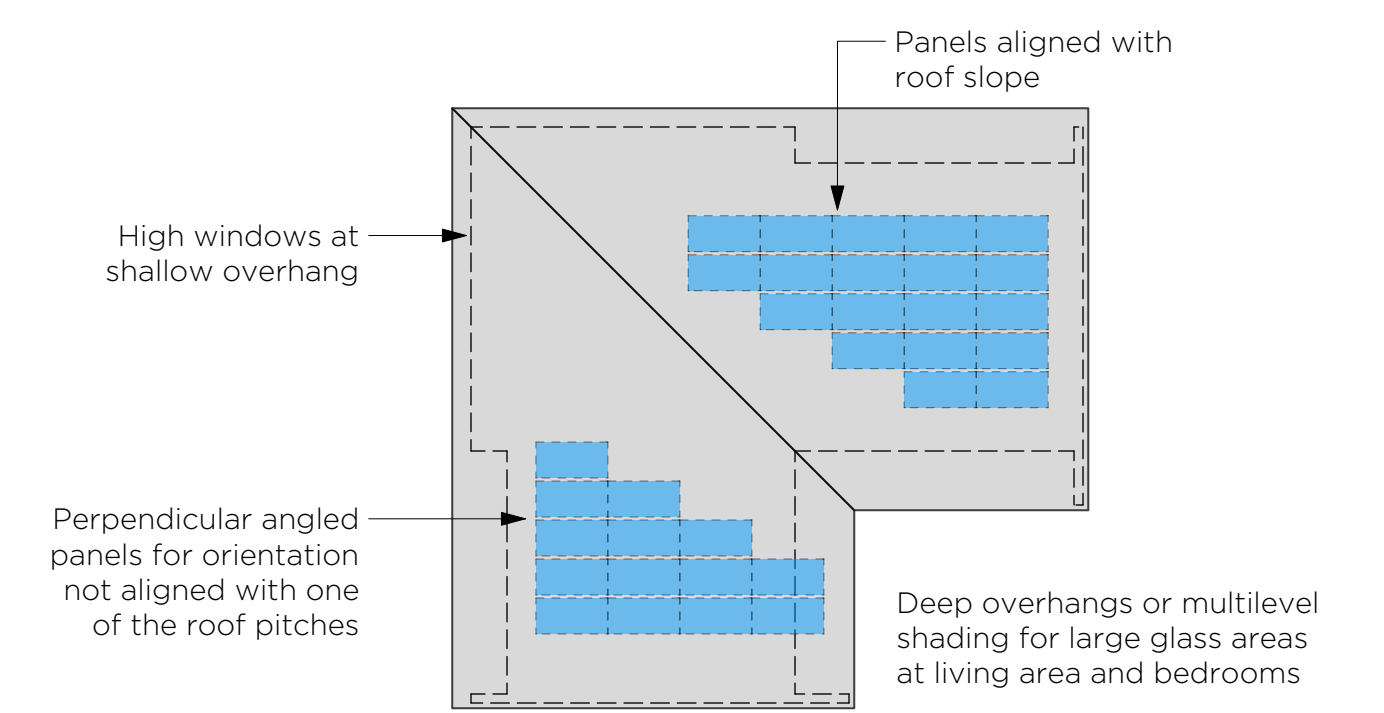
KITCHEN INTERIOR VIEW 2



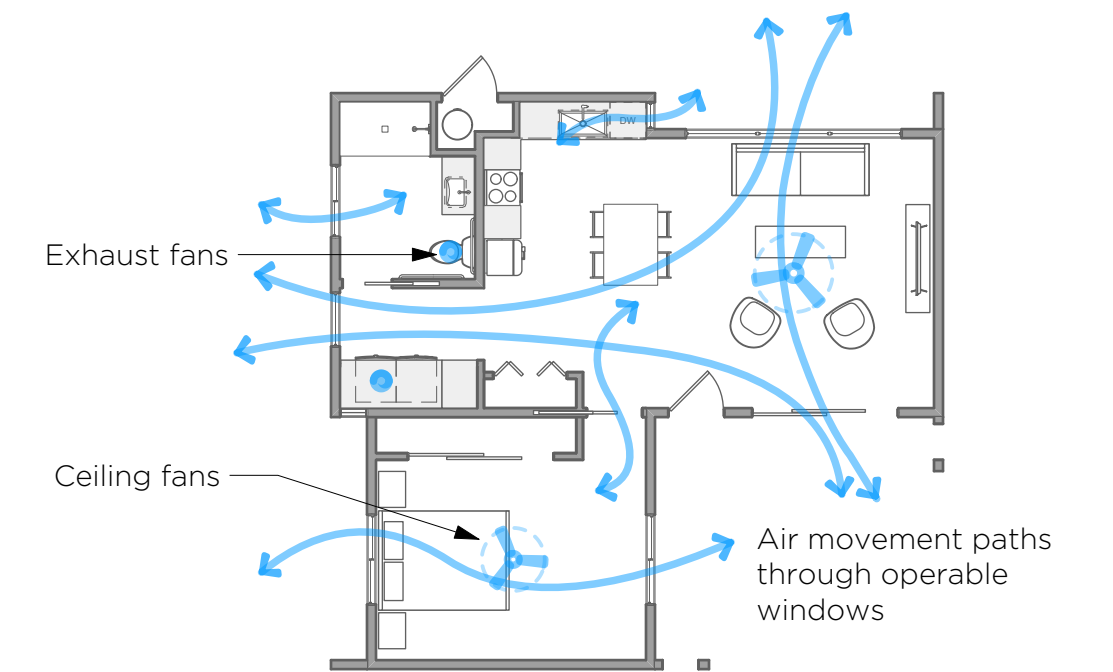
3D Floor Plan



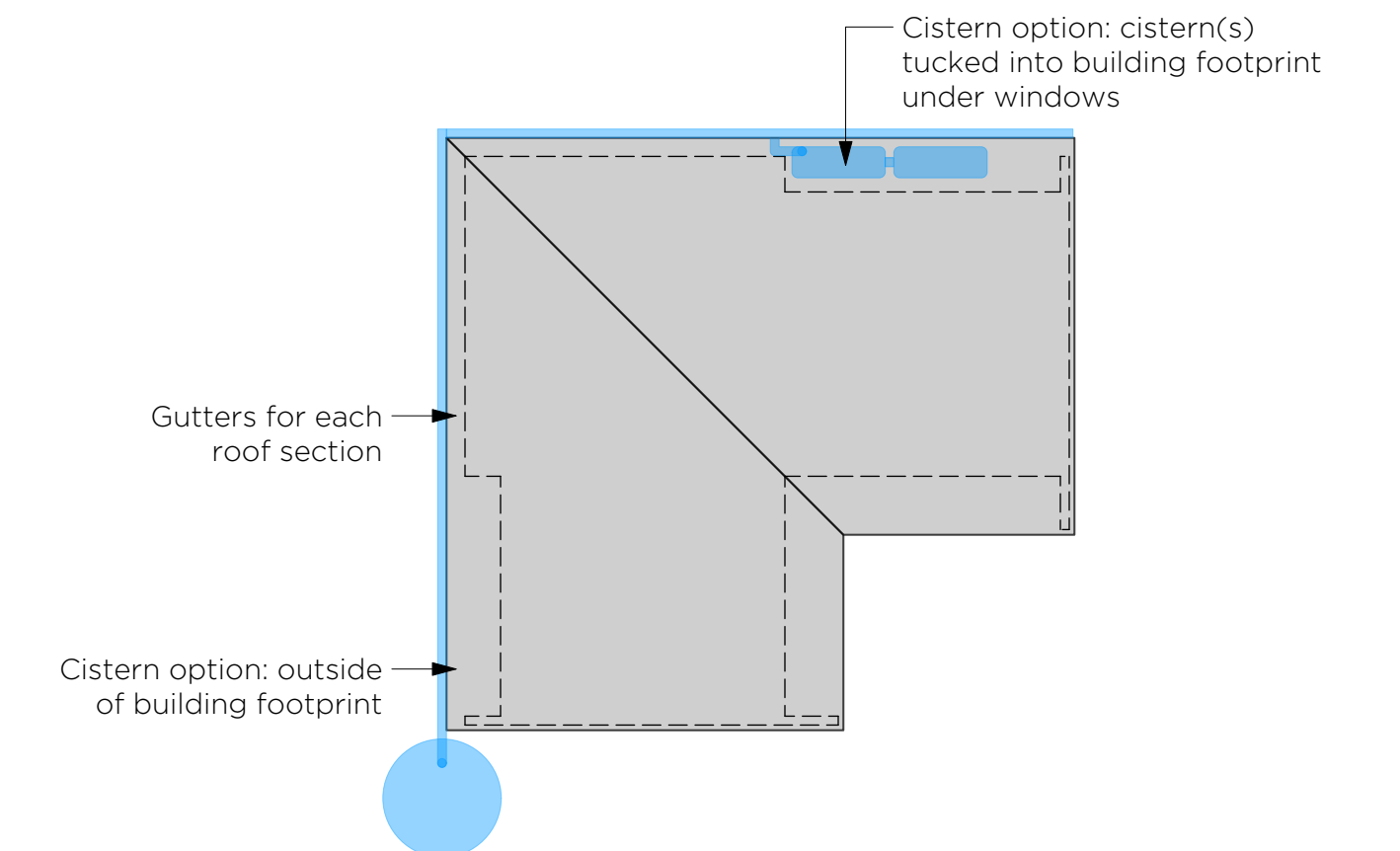
COMPACT PLUMBING



SOLAR ORIENTATION FLEXIBILITY



NATURAL VENTILATION AND AIR CIRCULATION



RAINWATER HARVESTING

#### INTEGRATED SUSTAINABILITY/GREEN FEATURES

- roof shape conducive to rainwater collection with 2 outlets and flexible cistern placement for different site conditions
- window shading and protected openings
- clothes washer near exterior wall for gray water selection valve and exit for irrigation use per ADEQ
- operable windows for ventilation and air circulation in nice weather and in emergency situations when HVAC is not available
- flexible design to mitigate heat gain in multiple orientations
- proximity of water heater to fixtures and compact plumbing design
- heat pump water heater specified to use less electricity, but standard water heater also possible
- interiors include basic typical healthy materials to maintain good indoor air quality
- solar PV flexibility with different roof face orientations
- efficient electric HVAC system in the form of ductless VRF electric heat pump
- daylighting for all spaces without roof penetrations

